EVERYTHING ELSE IS CHANGING

RESOURCES

TRAINING

TOOLS

GLENN RESEARCH CENTER

SET UP A USERS GROUP

WHAT ARE WE GOING TO TRY AND DO HERE TODAY?

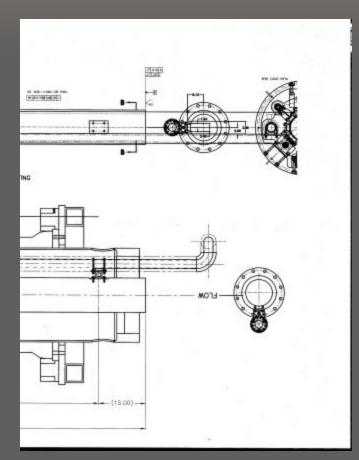
Determine

- What CM resources we have at GRC
- Who are the CM people?
- Where are the CM people?
- CM capabilities we have at GRC
- CM tools we have at GRC
- CM tools we need at GRC
- What CM training we need at GRC
- Total capability of CM at GRC
- CM now and What's ahead



CM IS CHANGING LIKE EVERYTHING ELSE!

- We need to help each other
- Form a GRC CM Working Group
 - NASA & All Contractors
- We are in competition with the World including:
 - Other NASA Labs
 - Dept of Defense (DOD)
 - Other Government Labs





SOFTWARE FILES



National Aeronautice and Space Administration VEHSS-PLAN-0001 Draft – 69 August 2001 EFFECTIVE DATE: (Date) 2001

George C. Marshall Space Flight Center Marshall Space Flight Center, Alabama 35812

SL20

2ND GENERATION REUSABLE LAUNCH VEHICLE PROGRAM

VEHICLE SUBSYSTEMS PROJECT
PROJECT PLAN

Draft

This document is still in work.

Green text that is underlined indicates Vehicle Subsystem Project input.

Green text that is not underlined indicates that the Vehicle Subsystems
Project has not yet input to this section.

CHECK THE MASTER UST - VERIFY THAT THIS IS THE CORRECT VERSION REFORE USE MSFC - Form 454-Flex. October 1983)

DRAWINGS

DOCUMENTS

PRODUCTS AND PROCESSES

PRIMARY FUNCTIONS

DEVELOPMENT
MANUFACTURING
VERIFICATION
DEPLOYMENT
OPERATIONS
SUPPORT
TRAINING
DATA DELIVERY
DISPOSAL

SYSTEM ELEMENTS

HARDWARE

SOFTWARE

FACILITIES

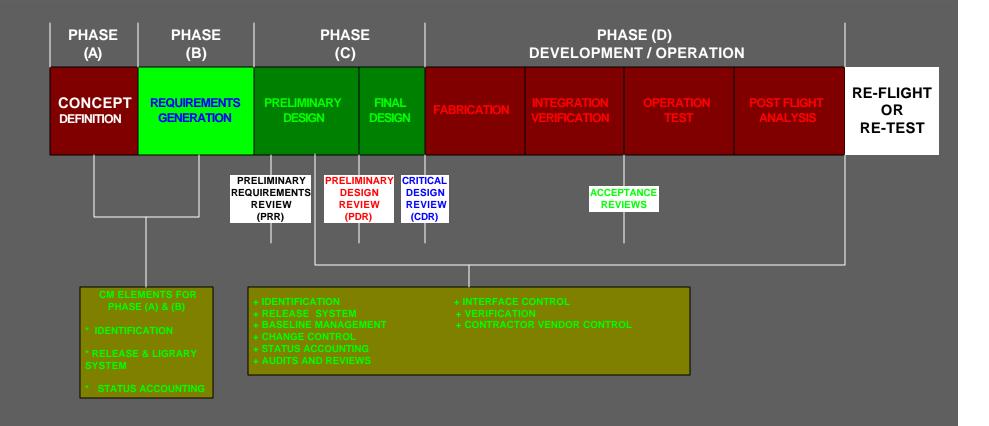
PERSONNEL

TOOLS

DATA

OPERTIONS & LOGISTICS

WHEN SHOULD CM START?



TYPICAL PROGRAM REVIEW PHASING

Configuration Management Activities Data **Status** Verification Change Identification Management **Management Accounting** and Audit Library Hardware Change Processing Record/Track/Report • Data Requirements Requirements Change Tracking Product IDs · Legal Rights Software Traceability Documentation • CCB/ICCB Adm. Hardware Technical Reviews - Warranties • Database Maintenance • Software Product/Process - Classified Interfaces Numbering Documents Reviews - Proprietary Baselines Action Items Audits (FCA/PCA) Distribution Problem Reports Storage • Status Reports Archive • ECRs, ECOs Backup Deliverables Change Packages Deviations Controlled Documents Waivers Quality Records Data Delivery interfaces All data is identified in the Configuration Status Accounting System

SOFTWARE

SOFTWARE DETAILED DESIGN **DOCUMENTS**

SOFTWARE REQUIREMENTS **SPECIFICATIONS**

SOFTWARE TEST PROCEDURES

SOFTWARE TEST REPORTS

SOFTWARE USERS GUIDE

VERSION DESCRIPTION DOCUMENT

SOURCE AND OBJECT CODE

CODE LISTINGS

DRAWINGS

PROTOFLIGHT CREW SIMULATOR

ASSEMBLY DRAWINGS

SCHEMATICS

INTERFACE DRAWINGS **BLOCK DIAGRAMS**

LAYOUT DRAWINGS

INTERFACE CONTROL DRAWINGS

FUNCTIONAL MODELS

CONNECTION DIAGRAMS SUPPORT EQUIP

CONFIGUATION OFFICE

Project Library

STATUS

ACCOUNTING

AND

REPORTING

STATUS REPORTS

VERIFY AUTHORITY

IDENTIFY BASELINE

DISTRIBUTION

ARCHIVE CD ROM WEB SITE

SERVER

RELEASE TO BASELINE

DOCUMENTS

ANALYSIS REPORTS

ASSEMBLY PROCEDURES

CHECKOUT PROCEDURES

SAFETY COMPLIANCE DATA

GROUND SAFETY DATA

DESIGN. DEVELOPMENT AND PRODUCT SPECIFICATIONS

MATERIAL SPECIFICATIONS

SAFETY CRITICAL STRUCTURES PACKAGE

SOURCE AND SPECIFICATION **DOCUMENTS AND DRAWINGS**

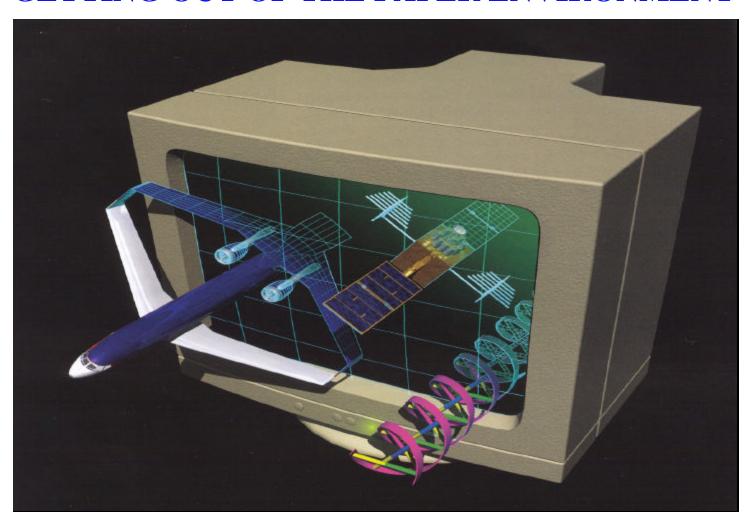
TEST PROCEDURES AND REPORTS

VERIFICATION PLANS AND PROCEDURES

ENGINEERING CHANGE ORDERS

DEVIATIONS & WAVIERS

GETTING OUT OF THE PAPER ENVIRONMENT



DIGITAL CONFIGURATION MANAGEMENT

GONFIGURTAION MANAGEMENT

- MODELING AND SIMULATION
- SINULATION REALITY
- COLLABORATIVE ENVIRONMENTS

HOW DO WE GET STARTED WITH SURVIVAL?

THIS IS YOUR PART!

DO WE WANT TO FORM A CM GROUP

GRC TO BE COMPETITIVE

RESOURCES, STANDARIZATION, COORDINATION

TRAINING

ESTABLISH MEETING TIMES AND FORMAT, TOPICS

DETERMINE ROLES AND RESPONSIBILITIES

ESTABLISH CHARTER AND GOALS